IN THE CLAIMS

Please cancel Claim 1-8 and 18-21.

1-8. (Canceled)

9. (Previously Presented)   An automatic flush valve system for evacuating waste, comprising:

a motor;

a gear train mechanically coupled to the motor;

a switch cam mechanically coupled to the gear train;

a rod cam mechanically coupled to the gear train, the rod cam adapted for opening a valve;

a braking logic electrically coupled to the motor and mechanically coupled to the switch cam; and

a sensing logic electrically coupled to the braking logic, where the sensing logic initiates a rotation of the motor and the braking logic terminates the rotation of the motor by grounding the motor.

10. (Previously Presented) The automatic flush valve system of claim 9 further

comprising a sensor, wherein the sensing logic includes a bias circuit configured to generate a bias signal to initiate the rotation of the motor when an activation signal is received from the sensor, and the braking logic includes an electrical switch configured to provide a power connection to the motor only while the bias circuit generates the bias signal and a mechanical switch configured to maintain the power connection to the motor after the electrical switch is turned off.

11. (Original) The automatic flush valve system of claim 9, further comprising a shaft coupled to the switch cam and rod cam.

12. (Previously Presented) The automatic flush valve system of claim 10, wherein the switch cam comprises a cutout portion that actuates the mechanical switch.

13. (Previously Presented) The automatic flush valve system of claim 12, wherein the cutout portion includes a convex surface.

14. (Original) The automatic flush valve system of claim 9, further comprising break control logic that interrupts a ground connection to the motor after a predetermined amount of time.

15. (Original) The automatic flush valve system of claim 14, wherein the predetermined amount of time is about equal to a flushing cycle.

16. (Original) The automatic flush valve system of claim 14, wherein the braking logic comprises an integrated circuit.

17. (Original) The automatic flush valve system of claim 14, wherein the break control logic comprises a transistor pair coupled to the sensing logic.

18-21. (Canceled)